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## NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

06/26/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

LAVARIAS, ARNEL C

ART UNIT PAPER NUMBER

2872

DATE MAILED: 06/26/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/568,594	02/17/2006	Tetsuro Mizushima	127100	7064	

TITLE OF INVENTION: HOLOGRAPHIC RECORDING MEDIUM AND HOLOGRAPHIC RECORDING AND REPRODUCING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advance of nerwise in Block 1, by (a	rders and notification of a) specifying a new con	of mai rrespo	ntenance fees windence address;	ill be and/o	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
OLIFF & BER P.O. BOX 3208: ALEXANDRIA	/2009	I S a t	Certificate of Mailing or T I hereby certify that this Fee(s) Transmittal is States Postal Service with sufficient postage fo addressed to the Mail Stop ISSUE FEE add transmitted to the USPTO (571) 273-2885, on the			s) Transmittal is being	peing deposited with the United	
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/568,594 TITLE OF INVENTION	02/17/2006 : HOLOGRAPHIC REC	ORDING MEDIUM AN	Tetsuro Mizushima D HOLOGRAPHIC RE		DING AND RE	PROD	127100 UCING METHOD	7064
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	JE P.	REV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	09/28/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
LAVARIAS	, ARNEL C	2872	359-003000					
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4a. The following fee(s)  Issue Fee Publication Fee (N Advance Order - +	4lpermitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY statu	ıs. See 37 CFR 1.27.	b. Applicant is no					
interest as shown by the	d Publication Fee (if requestroords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other that Office.	an the	applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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P.O. BOX 320850			ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	A 22320-4850	2872				
		DATE MAILED: 06/26/2009				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 246 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 246 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/568,594	MIZUSHIMA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Arnel C. Lavarias	2872					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>				
1. This communication is responsive to 6/16/09,2/23/09.							
2. $\boxtimes$ The allowed claim(s) is/are <u>1-6,9-10 (renumbered 1-8)</u> .							
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unanal  All b)  Some* c)  None of the: <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> </ol> </li> <li>Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). </li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No		iion from the				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the rec	quirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subminiformal PATENT APPLICATION (PTO-152) which give			OTICE OF				
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review ( PTO-	948) attached					
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date							
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in tl	84(c)) should be written on the drawir ne header according to 37 CFR 1.121(o	ngs in the front (not the d).	back) of				
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			lote the				
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO/SB/08),</li></ul>	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	wance				

### **DETAILED ACTION**

#### Response to Amendment

1. The amendments to Claims 1, 3 in the submission filed 6/16/09 are acknowledged and accepted. In view of these amendments, the rejections of Claim 1-6 under 35 U.S.C. 112, 1st paragraph, in Section 6 of the Office Action dated 2/25/09 are respectfully withdrawn.

## Response to Arguments

2. The Applicants' arguments, see in particular Page 5 of the response, filed 6/16/09, with respect to the rejections of Claims 1-6, have been fully considered and are persuasive. The rejections of Claims 1-6 have been withdrawn.

### Allowable Subject Matter

3. Claims 1-6, 9-10 are allowed.

#### **REASONS FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance:

Claims 1, 3 are allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a holographic recording medium, as generally set forth in Claims 1, 3, the recording medium including, in combination with the features recited in Claims 1, 3, a single recording layer comprising a holographic recording material sandwiched from both sides by two substrates having an uneven shape

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Art Unit: 2872

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including a step in thickness; the thickness of each of the white-light reconstruction holographic recording layer region and Fourier holographic recording layer region being changed by the step height of the two substrates. Claims 2, 4-6 are dependent on Claims 1, 3, and hence are allowable for at least the same reasons Claims 1, 3 are allowable.

Claim 9 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a method of holographic recording, as generally set forth in Claim 9, the method including, in combination with the features recited in Claim 9, the step of irradiating, as an object beam, a two-dimensional pattern image to a white-light reconstruction holographic recording layer region in a holographic recording medium comprising, in a substantially identical plane, the white-light reconstruction holographic recording layer region and a Fourier holographic recording layer region, the object beam is then switched to an optical path different from an optical path used for irradiating the two-dimensional pattern image, is Fourier-transformed, and then is irradiated as an information beam to the Fourier holographic recording layer region in the holographic recording medium. Claim 10 is dependent on Claim 9, and hence is allowable for at least the same reasons Claim 9 is allowable

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Arnel C. Lavarias whose telephone number is 571-272-

2315. The examiner can normally be reached on M-F 10:00 AM - 6:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephone B. Allen can be reached on 571-272-2434. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arnel C. Lavarias Primary Examiner Group Art Unit 2872 6/19/09